CLAIMS

- 1 1 A cable system comprising:
- a cable having a conductor, a power layer and dielectric material, the dielectric
- 3 layer being located at least partially between the conductor and the power layer, the
- 4 conductor being operative to carry a signal, the power layer being operative as ground,
- 5 the power layer being formed of a conductive material and having a first region and an
- 6 adjacent second region, the first region including a greater amount of the conductive
- 7 material than the second region such that the power layer is less resistant to bending
- 8 along the second region than along the first region.
- 1 2. The cable system of claim 1, wherein the second region includes a void that
- 2 lacks the conductive material.
- 1 3. The cable system of claim 2, wherein at least a portion of the dielectric
- 2 material is located within the void.
- 1 4. The cable system of claim 1, wherein the second region includes a recess
- defining an area of reduced thickness of the power layer.
- 1 5. The cable system of claim 1, wherein:
- 2 the cable has a longitudinal axis; and
- 3 the second region defines an axial-region bending about which the power layer
- 4 is less resistant to bending, the axial-bending region being angularly displaced with
- 5 respect to the longitudinal axis of the cable.

The cable system of claim 1, wherein the conductor has a first end and a 2 second end; and 3. further comprising: a first connector electrically communicating with the first end of the 5 conductor; and a second connector electrically communicating with the second end of the conductor. 1 The cable system of claim 1, wherein the power layer is formed of interwoven 2 strips of the conductive material. 1 The cable system of claim 7, wherein: 2 the power layer includes a first strip and a second strip of the conductive 3 material; and the first region is defined at a location where the first strip and the second strip overlap each other. 5 9. A cable system comprising: 2 a cable having a power layer operative as ground, the power layer being 3 formed of a conductive material and including multiple first locations and multiple second locations, each of the first locations including an amount of conductive 4 5 material greater than an amount of conductive material included in the each of the . 6 second locations such that the power layer is more resistant to bending at the first

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locations than at the second locations.

- 1 10. The cable system of claim 9, wherein:
- the cable has a first region including multiple ones of the first locations and a
- 3 second region including multiple ones of the second locations; and
- 4 the power layer is more resistant to bending along the first region than along
- 5 the second region.
- 1 11. The cable system of claim 10, wherein at least one of the second locations of
- 2 the second region is a void that lacks conductive material.
- 1 12. The cable system of claim 11, wherein:
- 2 the cable has a longitudinal axis; and
- 3 the second region defines an axial-bending region about which the power layer
- 4 is configured to bend, the axial-bending region being angularly displaced with respect
- 5 to the longitudinal axis of the cable.
- 1 13. The cable system of claim 9, further comprising:
- a conductor, spaced from the power layer and operative to propagate a signal.
- 1 14. The cable system of claim 9, wherein the power layer is formed of interwoven
- 2 strips of the conductive material.
- 1 15. The cable system of claim 9, wherein the power layer is generally planar.

- 1 16. A cable system comprising:
- a flex cable having means for enabling the flex cable to bend preferentially
- 3 along an axial-bending region, the axial-bending region being offset with respect to a
- 4 longitudinal axis of the flex cable.
- 1 17. The cable system of claim 16, wherein the flex cable has a first end and a
- 2 second end; and
- 3 further comprising:
- 4 first means for enabling the first end of the flex cable to electrically
- 5 communicate with a component; and
- second means for enabling the second end of the flex cable to electrically
- 7 communicate with a component.
- 1 18. A method for forming a cable system comprising:
- 2 providing a power layer including at least a first region of reduced material
- 3 content; and
- forming a flex cable with the power layer.
- 1 19. The method of claim 18, wherein providing a power layer comprises forming
- 2 voids in the first region.
- 1 20. The method of claim 18, wherein providing a power layer comprises forming
- 2 recesses in the first region.

- 1 21. A method for electrically interconnecting components comprising:
- 2 providing a flex cable having a power layer that includes at least a first region
- 3 of reduced material content;
- 4 providing a first component and a second component that are to be electrically
- 5 interconnected to each other; and
- 6 electrically interconnecting the first component and the second component
- 7 with the flex cable.